Serial No. 10/028,265

IN THE SPECIFICATION:

The specification as amended below with replacement paragraphs shows added text with <u>underlining</u> and deleted text with <u>strikethrough</u>.

Please REPLACE the paragraph at page 38, lines 1-5, with the following paragraph:

TABLE 2. Relation between Mask Value and Amount of Computation Required for Determining 128-bit Secret Key by DPA of Loading Sbox Output-Input Values, for One Common Sbox Set for Subbytes, in Fixed Mask Value Method.

Please REPLACE the paragraph at page 41, lines 1-15, with the following paragraph:

The F function of FIGURE 33B includes a selector 759 for providing a fixed mask value $FM_{i,h}$ selected in response to the random number h, an XOR 762 for XORing the sub-key K_i with the fixed mask value $FM_{i,h}$ to provide an output, an XOR 763 for XORing the output value with an input Xi' linearly transformed by a linear transform E, selectors 752 to 756 for selecting one of Subbytes $[[S_{i,h}]]$ $\underline{S_{i,h}}$ in response to the random number h to provide the output from the XOR 763, Subbytes $[[S_{i,h}]]$ $\underline{S_{i,h}}$ for performing the Subbyte in accordance with the respective nonlinear table Sboxes $[[S_{i,h}]]$ $\underline{S_{i,h}}$, selectors 754 to 757 for selecting one of the Subbytes $[[S_{i,h}]]$ $\underline{S_{i,h}}$ in response to the random number h to provide an output, and a linear transform P for linearly transforming the output from the selectors 754 to 757 to provide an output Zi'.

Please REPLACE the paragraph at page 42, lines 24-30, with the following paragraph:

The F function of FIGURE 34B includes an XOR 862 for XORing the input Xi' linearly transformed by a linear transform E with the XOR value of the sub-key K_i with the fixed mask value $FM_{i,h}$, Subbytes $[[S_{i,h}]]$ $\underline{S_{j,h}}$ (i = 1, 2, ... 8) in accordance with the nonlinear table SBoxes $S_{i,h}$, and a linear transform P for linearly transforming the output from the Subbyte $[[S_{i,h}]]$ $\underline{S_{j,h}}$ to provide an output Zi'.